

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P220244

Luminaire Tested: **R3-WN-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-1L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3137.1 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

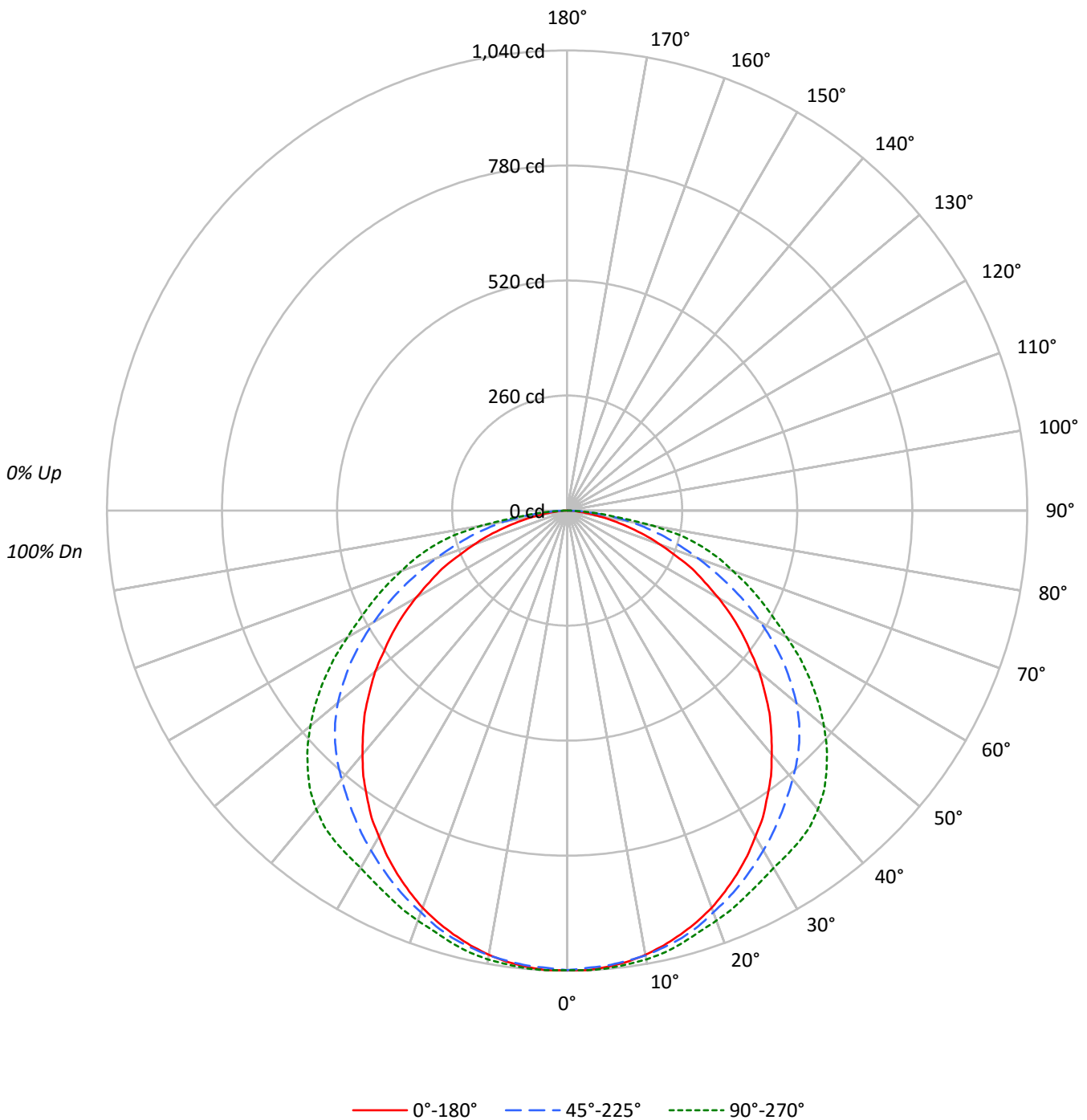
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1398	1398	1398
5°	1399	1394	1403
10°	1393	1394	1408
15°	1381	1393	1408
20°	1368	1383	1412
25°	1347	1380	1425
30°	1322	1378	1449
35°	1295	1381	1501
40°	1263	1393	1549
45°	1230	1411	1578
50°	1186	1416	1586
55°	1131	1399	1577
60°	1061	1357	1544
65°	994	1303	1541
70°	879	1236	1568
75°	739	1183	1644
80°	563	1126	1516
85°	380	824	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.1
10°-20°	282.6	9.0
20°-30°	430.2	13.7
30°-40°	530.1	16.9
40°-50°	569.1	18.1
50°-60°	522.5	16.7
60°-70°	399.6	12.7
70°-80°	242.3	7.7
80°-90°	62.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	811.2	25.9
0°-40°	1341.4	42.8
0°-60°	2432.9	77.6
0°-90°	3137.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1036	1034	1032	1038	1039	98
15°	992	995	1000	1010	1011	280
25°	907	916	930	953	960	418
35°	789	802	841	892	914	494
45°	646	667	742	809	829	497
55°	482	514	596	654	672	430
65°	312	343	409	464	484	306
75°	142	173	228	291	316	153
85°	25	42	53	61	65	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.7	1038.7	1038.7	1038.7	1038.7
2.5°	1039.8	1038.7	1034.5	1038.7	1039.8
5°	1035.5	1034.5	1032.3	1037.7	1038.7
7.5°	1029.1	1029.1	1027.0	1034.5	1034.5
10°	1019.5	1019.5	1020.6	1028.1	1030.2
12.5°	1006.7	1008.8	1011.0	1021.6	1022.7
15°	991.7	994.9	1000.3	1009.9	1011.0
17.5°	974.6	978.9	985.3	994.9	997.1
20°	955.4	959.7	966.1	982.1	986.4
22.5°	931.9	940.4	949.0	968.2	974.6
25°	907.3	915.8	929.7	953.3	959.7
27.5°	880.6	889.1	908.4	936.2	945.8
30°	850.7	861.3	887.0	919.1	932.9
32.5°	822.9	832.5	864.6	905.2	923.3
35°	788.7	801.5	841.0	892.3	913.7
37.5°	756.6	769.4	816.5	879.5	900.9
40°	719.2	736.3	793.0	861.3	881.7
42.5°	682.9	702.1	768.4	837.8	859.2
45°	646.5	666.8	741.7	809.0	829.3
47.5°	604.9	629.4	711.7	778.0	796.2
50°	566.4	593.1	676.5	740.6	757.7
52.5°	521.5	554.6	636.9	701.0	717.1
55°	482.0	514.0	596.3	654.0	672.2
57.5°	439.2	474.5	551.4	607.0	625.2
60°	394.3	430.7	504.4	560.0	573.9
62.5°	350.5	392.2	458.5	509.8	526.9
65°	312.1	343.0	409.3	463.8	484.1
67.5°	265.0	299.2	360.1	416.8	441.4
70°	223.4	256.5	314.2	374.0	398.6
72.5°	183.8	212.7	269.3	332.4	360.1
75°	142.1	173.1	227.6	290.7	316.3
77.5°	106.9	135.7	184.9	247.9	266.1
80°	72.7	100.5	145.3	189.2	195.6
82.5°	46.0	69.5	99.4	112.2	112.2
85°	24.6	41.7	53.4	60.9	65.2
87.5°	9.6	13.9	20.3	20.3	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)